

IN THE CLAIMS

1. (Currently amended) Musical apparatus comprising:
an audio score synthesis mechanism;
a playing mechanism configured to play an audio score;
an audio score input mechanism configured to input a received audio score from an external source wirelessly coupled with said apparatus; [[and]]
an audio score mixing mechanism coupled with said synthesis mechanism, with said audio score input mechanism and with said playing mechanism, said mixing mechanism configured to mix a synthesized audio score with a received-and-inputted audio score to produce a playable audio score having components of both the synthesized and the received-and-inputted audio score for playing of the produced playable audio score by said playing mechanism;
wherein the musical apparatus may alternatively be configured to act a controller to alternatively configure the musical apparatus as a master of a network or as a slave in a network; and
an interconnect mechanism to operatively couple the musical apparatus with a second musical apparatus which includes a second audio score mixing mechanism.
2. (Cancelled)
3. (Original) The apparatus of claim 1 which further comprises:
a wireless interconnect mechanism configured wirelessly to transmit and receive audio scores in the form of digital data to and from such external source.
4. (Original) The apparatus of claim 3 which further comprises:
a recording mechanism configured at least temporarily to store one or more audio scores.
5. (Original) The apparatus of claim 4 which further comprises:
an upload mechanism to upload such one or more audio scores to a processor external to said apparatus.

6. (Original) The apparatus of claim 1, wherein said external audio source is another instance of said musical apparatus.

7. (Previously Presented) The apparatus of claim 1 which further comprises:
a housing of approximately hand-held size, said housing containing said synthesis mechanism, said playing mechanism, said input mechanism and said mixing mechanism;
a memory within said housing for storing coded audio event data representing one or more such audio scores; and
digital-audio electronics within said housing for retrieving coded audio event data from said memory, for converting said coded audio event data into an audio signal and for playing ~~out~~ said audio signal audibly to a user of said device.

8. (Original) The apparatus of claim 7 in which the coded audio event data is stored in accordance with a musical instrument digital interface (MIDI) standard.

9. (Previously Presented) The apparatus of claim 8 which further comprises:
one or more user controls on said housing, the user control enabling the user to selectively play said audio signal.

10. (Previously Presented) The device of claim 8 which further comprises:
a display on said housing, the display enabling a user to visually monitor the selective play of said audio signal.

11. (Previously Presented) A system of music devices operatively coupled together, the system comprising:
plural apparatus in physical proximity with each other and capable of at least one-way communication therebetween of an audio score,
at least two such apparatus comprising:
an audio score synthesis mechanism including a playing mechanism for playing the synthesized audio score;

an audio score mixing mechanism coupled with said synthesis mechanism for mixing plural audio scores to produce another audio score having components of each of the plural audio scores; and

an audio score input mechanism coupled with said mixing mechanism to provide one or more input audio scores thereto for mixing with the synthesized and ~~out~~played played audio score,

said synthesis mechanism, said mixing mechanism and said input mechanism being operable in real time to create a playable audio score having components of plural audio scores produced by said plural proximate apparatus.

12. (Original) The system of claim 11, wherein the audio score for transmitting by said transmit mechanism is in the form of digital data.

13. (Original) The system of claim 12, wherein the digital data is formatted in accordance with a musical instrument digital interface (MIDI) standard.

14. (Previously Presented) The system of claim 11, wherein said audio score synthesis mechanism of said at least two such apparatus further includes a playing mechanism for playing the synthesized audio score and further comprising at least another such apparatus operatively coupled with said at least two such apparatus, said at least another such apparatus comprising:

an audio score output playing mechanism; and

a transmit mechanism for wirelessly transmitting an audio score to said at least two such apparatus for mixing thereby;

wherein said at least another apparatus further comprises:

a second audio score synthesis mechanism operatively coupled with said output mechanism for synthesizing an audio score for transmitting by said transmit mechanism;

a second audio score mixing mechanism coupled with said second synthesis mechanism for mixing plural audio scores to produce another audio score having components of each of the plural audio scores; and

a second audio score input mechanism coupled with said second mixing mechanism to provide one or more input audio scores thereto for mixing with the synthesized and played audio score,

said second synthesis mechanism, said second mixing mechanism and said second input mechanism being operable in real time to create a playable audio score having components of plural audio scores produced by said plural proximate apparatus.

15. (Original) The network of claim 14 wherein at least one of said plural apparatus further comprises a controller configurable as a master controller and at least another of said plural apparatus further comprises a controller configurable as a slave controller wherein said master controller is capable of dictating a mode of operation of said network to said slave controller.

16. (Currently amended) The network of claim 11, wherein at least one of said plural apparatus ~~is a lightweight portable hand-held device~~ includes a housing of approximately hand-held size, said housing containing said synthesis mechanism, said mixing mechanism, and said input mechanism.

17. (Currently amended) A method of producing a musical session among two or more music devices, the method comprising:

providing two or more physically proximate, but separate music devices,

a first one of such devices being configured to synthesize a first audio score and to mix the same with a second audio score from an external source to produce a playable audio score having components of both the first and second audio scores, and being configurable as either a master or a slave on a wireless interconnect mechanism and

a second one of such devices being configured to receive from the first one of such music devices the playable audio score and to play such playable-and-received audio score, and

operatively coupling said two or more music devices together via the wireless interconnect mechanism that enables at least one way communication therebetween of an audio score for playing by the receiving music device;

where each of the two or more musical devices includes an audio score mixing mechanism.

18. (Original) The method of claim 17 in which the second one of such devices is configured as the external source, wherein such second one of such devices is further configured to synthesize the second audio score and to transmit such second audio score via such wireless interconnect mechanism to such first one of such devices for mixing thereby with such first audio score.

19. (Previously Presented) The method of claim 18, wherein the first one of such devices is further configured to play the playable audio score.

20. (Original) The method of claim 19 which further comprises:
recording the first and second audio scores within corresponding memories of such first and second ones of such devices in accordance with a musical instrument digital interface (MIDI) standard.

21. (Previously Presented) A method of producing a musical session among two or more music devices, the method comprising:

synthesizing a first audio score in the first musical device;

wirelessly transmitting a second audio score between two or more music devices that are physically proximate, but separate from one another;

mixing the first audio score with the second audio score in the first musical device to produce a playable audio score having components of both the first and second audio scores; and

playing the playable audio score;

where at least two of the two or more musical devices have an audio score synthesis mechanism and an audio score mixing mechanism.

22. (Original) The method of claim 21 which, before said transmitting, further comprises:

synthesizing the second audio score.

23. (Previously Presented) The method of claim 22, wherein said transmitting of the second audio score is in accordance with a musical instrument digital interface (MIDI) standard and wherein said first synthesizing, said transmitting, said mixing and said playing are performed in real time.

24. (Previously Presented) The method of claim 23, wherein said playing is performed in real time at each of the two or more music devices.

25. (Currently amended) An article of manufacture for use with a music device, the article comprising a computer-readable medium containing a program, the program comprising:

- synthesis firmware for synthesizing a first audio score;
- transmission firmware for wirelessly transmitting a second audio score between two or more music devices that are physically proximate but separate from one another;
- mix firmware for mixing the first audio score with a second audio score to produce a playable audio score having components of both the first and second audio scores;
- play firmware for audibly playing the playable audio score; and
- firmware to alternatively configure the article to act as a master of a network or as a slave in a network;

coupling firmware to operatively couple the music device with a second music device,
wherein the second music device includes an audio score mixing firmware.

26. (Original) A computer-readable medium containing a program according to claim 25, wherein the program further comprises:

synthesis firmware operative before the operation of said transmission firmware for synthesizing the second audio score.

27. (Previously Presented) A musical system comprising:

a wireless network; and

plural portable musical apparatus in physically separated proximity with each other and capable of two-way communication therebetween of an audio score over said wireless network, each musical apparatus including:

- an audio score synthesis mechanism;
- an audio playing mechanism coupled with said network;
- an audio input mechanism coupled with said network; and
- an audio score mixing mechanism coupled with said synthesis mechanism, said input mechanism and said playing mechanism, said mixing mechanism configured to mix a first audio score from said synthesis mechanism with a second audio score from said input mechanism to produce in real time a playable audio score having components of each of the first and second audio scores.

28. (Previously Presented) The musical system of claim 27, wherein the playable audio score is in the form of digital data.

29. (Original) The musical system of claim 28, wherein the digital data is formatted in accordance with a musical instrument digital interface (MIDI) standard.

30. (Original) The musical system of claim 29, wherein said wireless network takes the form of a WiFi or Bluetooth network.

31. (Previously Presented) The system of claim 11, further comprising at least another such apparatus operatively coupled with said at least one such apparatus, said at least another such apparatus comprising:

- an audio score output playing mechanism; and
- a transmit mechanism for wirelessly transmitting an audio score to said at least one such apparatus for mixing thereby.